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80669  
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From: Helms, Larry  
Sent: Wednesday, November 20, 2002 11:06 AM  
To: STIC-Biotech/ChemLib  
Subject: litigation search against patent 5688657

RECEIVED

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STIC-BIOTECH/ChemLib

Please perform a litigation search against US Patent 5,688,657 and send the results to 8E12, AU 1642)

thank you,

Larry

Larry Helms  
AU 1642  
CM-1 8B11  
306-5879

Point of Contact:  
Mona Smith  
Technical Information Specialist  
CM1 6A01  
Tel: 308-3278

Searcher: M. Smith  
Phone: \_\_\_\_\_  
Location: \_\_\_\_\_  
Date Picked Up: 11/21/02  
Date Completed: 11/21/02  
Searcher Prep/Review: 20  
Clerical: \_\_\_\_\_  
Online time: 25

TYPE OF SEARCH:

NA Sequences: \_\_\_\_\_  
AA Sequences: \_\_\_\_\_  
Structures: \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: X  
Full text: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

VENDOR/COST (where applic.)

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
Questel/Orbit: \_\_\_\_\_  
DRLink: \_\_\_\_\_  
Lexis/Nexis: \_\_\_\_\_  
Sequence Sys.: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other (specify): \_\_\_\_\_

b345;s pn=us 5688657;t1/39/1  
 21nov02 13:47:14 User259289 Session D417.1  
 \$0.00 0.081 DialUnits File415  
 \$0.00 Estimated cost File415  
 \$0.21 TELNET  
 \$0.21 Estimated cost this search  
 \$0.21 Estimated total session cost 0.081 DialUnits

File 345:Inpadoc/Fam.& Legal Stat 1968-2002/UD=200245  
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Set	Items	Description
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S1	1	PN=US 5688657

1/39/1  
 DIALOG(R) File 345:Inpadoc/Fam.& Legal Stat  
 (c) 2002 EPO. All rts. reserv.

14425024  
 Basic Patent (No,Kind,Date): IL 115232 A0 19951231 <No. of Patents: 010>  
 Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
AU 9535870	A1	19960329	AU 9535870	A	19950912	
CA 2199740	AA	19960321	CA 2199740	A	19950912	
CN 1164238	A	19971105	CN 95196182	A	19950912	
EP 777690	A1	19970611	EP 95933081	A	19950912	
EP 777690	A4	20000705	EP 95933081	A	19950912	
IL 115232	A0	19951231	IL 115232	A	19950911	(BASIC)
JP 10505749	T2	19980609	JP 95510288	A	19950912	
US 5688657	A	19971118	US 304524	A	19940912	
WO 9608514	A1	19960321	WO 95US11554	A	19950912	
ZA 9507634	A	19960527	ZA 957634	A	19950912	

Priority Data (No,Kind,Date):

US 304524 A 19940912  
 WO 95US11554 W 19950912  
 CN 95196182 A 19950912  
 US 159836 B2 19931130  
 US 117430 B2 19930907  
 US 670816 B2 19910318  
 US 176337 B2 19880331

#### PATENT FAMILY:

##### AUSTRALIA (AU)

Patent (No,Kind,Date): AU 9535870 A1 19960329  
 MONOCLONAL ANTIBODIES AGAINST HUMAN COLON CARCINOMA-ASSOCIATED ANTIGENS  
 AND USES THEREFOR (English)  
 Patent Assignee: KWONG Y TSANG; MYRON ARLEN  
 Author (Inventor): TSANG KWONG Y; ARLEN MYRON  
 Priority (No,Kind,Date): US 304524 A 19940912; WO 95US11554 W  
 19950912  
 Applic (No,Kind,Date): AU 9535870 A 19950912  
 IPC: \* C07K-016/00; C07K-016/30; C07K-016/18; C07K-014/00;  
 A61K-039/395; A61K-041/00; A61K-049/00; A61K-051/00; G01N-033/574;  
 C12N-015/02; C12P-021/08  
 Derwent WPI Acc No: \* C 96-179905  
 Language of Document: English

##### AUSTRALIA (AU)

Legal Status (No,Type,Date,Code,Text):

AU 9535870 A 20000120 AU MK5 APPLICATION LAPSED SECTION  
142(2)(E) - PATENT REQUEST AND COMPL.  
SPECIFICATION NOT ACCEPTED

CANADA (CA)

Patent (No,Kind,Date): CA 2199740 AA 19960321  
MONOCLONAL ANTIBODIES AGAINST HUMAN COLON CARCINOMA-ASSOCIATED ANTIGENS  
AND USES THEREFOR (English; French)  
Patent Assignee: INT BIOIMMUNE SYSTEMS INC (US)  
Author (Inventor): ARLEN MYRON (US); TSANG KWONG Y (US)  
Priority (No,Kind,Date): US 304524 A 19940912  
Applic (No,Kind,Date): CA 2199740 A 19950912  
IPC: \* C07K-016/30; A61K-039/00; A61K-049/00; A61K-051/10;  
A61K-039/395; C07K-016/42; C07K-016/46; A61K-047/48; G01N-033/574;  
C07K-014/705  
CA Abstract No: \* 125(01)008489M  
Derwent WPI Acc No: \* C 96-179905  
Language of Document: English

CANADA (CA)

Legal Status (No,Type,Date,Code,Text):  
CA 2199740 P 19970311 CA REFW CORRESPONDS TO PCT  
APPLICATION (ENTSPRICHT PCT ANMELDUNG)  
WO 9608514 P

CHINA (CN)

Patent (No,Kind,Date): CN 1164238 A 19971105  
MONOCLONAL ANTIBODIES AGAINST HUMAN COLON CARCINOMA-ASSOCIATED ANTIGENS  
AND USES THEREFOR (English)  
Patent Assignee: INT BIOIMMUNIZATION CO LTD (US)  
Author (Inventor): TSANG KWONG-Y (US); MYRON ARLEN (US)  
Priority (No,Kind,Date): CN 95196182 A 19950912; US 304524 A  
19940912  
Applic (No,Kind,Date): CN 95196182 A 19950912  
IPC: \* C07K-016/00; C07K-016/30; C07K-016/18; C07K-014/00;  
A61K-039/395; A61K-041/00; A61K-049/00; A61K-051/00; G01N-033/574  
CA Abstract No: \* 125(01)008489M; 127(25)343589N  
Derwent WPI Acc No: \* C 96-179905  
Language of Document: Chinese

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 777690 A1 19970611  
MONOCLONAL ANTIBODIES AGAINST HUMAN COLON CARCINOMA-ASSOCIATED ANTIGENS  
AND USES THEREFOR (English; French; German)  
Patent Assignee: TSANG KWONG Y (US); ARLEN MYRON (US)  
Author (Inventor): TSANG KWONG Y (US); ARLEN MYRON (US)  
Priority (No,Kind,Date): WO 95US11554 W 19950912; US 304524 A  
19940912  
Applic (No,Kind,Date): EP 95933081 A 19950912  
Designated States: (National) AT; BE; CH; DE; DK; ES; FR; GB; GR; IE;  
IT; LI; LU; MC; NL; PT; SE  
IPC: \* C07K-016/00; C07K-016/30; C07K-016/18; C07K-014/00;  
A61K-039/395; A61K-041/00; A61K-049/00; A61K-051/00; G01N-033/574;  
C12N-015/02; C12P-021/08  
CA Abstract No: \* 125(01)008489M  
Derwent WPI Acc No: \* C 96-179905  
Language of Document: English  
Patent (No,Kind,Date): EP 777690 A4 20000705  
MONOCLONAL ANTIBODIES AGAINST HUMAN COLON CARCINOMA-ASSOCIATED ANTIGENS  
AND USES THEREFOR (English; French; German)  
Patent Assignee: TSANG KWONG Y (US); ARLEN MYRON (US)

Author (Inventor): TSANG KWONG Y (US); ARLEN MYRON (US)  
 Priority (No,Kind,Date): WO 95US11554 W 19950912; US 304524 A 19940912  
 Applic (No,Kind,Date): EP 95933081 A 19950912  
 Designated States: (National) AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE  
 IPC: \* C07K-016/00; C07K-016/30; C07K-016/18; C07K-014/00; A61K-039/395; A61K-041/00; A61K-049/00; A61K-051/00; G01N-033/574; C12N-015/02; C12P-021/08  
 CA Abstract No: \* 125(01)008489M; 127(25)343589N  
 Derwent WPI Acc No: \* C 96-179905  
 Language of Document: English

## EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 777690	P	19940912	EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
				US 304524 A	19940912
EP 777690	P	19950912	EP AA	PCT-APPLICATION	(PCT-ANMELDUNG)
				WO 95US11554 W	19950912
EP 777690	P	19950912	EP AE	EP-APPLICATION	(EUROPAEISCHE ANMELDUNG)
				EP 95933081 A	19950912
EP 777690	P	19970611	EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT: (IN EINER ANMELDUNG BENANNTE VERTRAGSSTAATEN)	AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
EP 777690	P	19970611	EP A1	PUBLICATION OF APPLICATION WITH SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT)	
EP 777690	P	19970611	EP 17P	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT)	970410
EP 777690	P	20000705	EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A SUPPLEMENTARY SEARCH REPORT: (IN EINEM ERGAENZENDEN RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)	AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
EP 777690	P	20000705	EP A4	SUPPLEMENTARY SEARCH REPORT (ERGAENZENDER RECHERCHENBERICHT)	20000522
EP 777690	P	20001115	EP 18D	DEEMED TO BE WITHDRAWN (ALS ZURUECKGENOMMEN GELTEN)	20000401

## ISRAEL (IL)

Patent (No,Kind,Date): IL 115232 A0 19951231  
 MONOCLONAL ANTIBODIES AGAINST COLON CARCINOMA-ASSOCIATED ANTIGENS  
 (English)  
 Patent Assignee: TSANG KWONG Y; ARLEN MYRON  
 Priority (No,Kind,Date): US 304524 A 19940912  
 Applic (No,Kind,Date): IL 115232 A 19950911  
 IPC: \* C07K  
 Language of Document: English

## JAPAN (JP)

Patent (No,Kind,Date): JP 10505749 T2 19980609

Priority (No,Kind,Date): WO 95US11554 W 19950912; US 304524 A 19940912  
 Applic (No,Kind,Date): JP 95510288 A 19950912  
 IPC: \* C12N-015/02; A61K-039/00; A61K-039/395; C07K-014/47; C07K-016/18; C07K-016/30; C07K-016/46; G01N-033/53; G01N-033/574; G01N-033/577; C12P-021/08  
 CA Abstract No: \* 125(01)008489M; 127(25)343589N  
 Derwent WPI Acc No: \* C 96-179905  
 Language of Document: Japanese

## UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5688657 A 19971118  
 MONOCLONAL ANTIBODIES AGAINST HUMAN COLON CARCINOMA-ASSOCIATED ANTIGENS AND USES THEREFOR (English)  
 Patent Assignee: INT BIO IMMUNE SYSTEMS INC (US)  
 Author (Inventor): TSANG KWONG Y (US); ARLEN MYRON (US)  
 Priority (No,Kind,Date): US 304524 A 19940912; US 159836 B2 19931130; US 117430 B2 19930907; US 670816 B2 19910318; US 176337 B2 19880331  
 Applic (No,Kind,Date): US 304524 A 19940912  
 National Class: \* 435007230; 435007100; 435007200; 435040510; 435040520; 435325000; 435328000; 435329000; 435330000; 435332000; 435344000; 530388800; 530387100; 530387300; 530387500; 530387700; 530388100; 530391100; 530391300; 530391700  
 IPC: \* G01N-033/574; G01N-033/53; C07K-016/30; C07K-016/18  
 CA Abstract No: \* 125(01)008489M; 127(25)343589N; 127(25)343589N  
 Derwent WPI Acc No: \* C 96-179905  
 Language of Document: English

## UNITED STATES OF AMERICA (US)

## Legal Status (No,Type,Date,Code,Text):

US 5688657	P	19880331	US AA	PRIORITY
		US 176337	B2	19880331
US 5688657	P	19910318	US AA	PRIORITY
		US 670816	B2	19910318
US 5688657	P	19930907	US AA	PRIORITY
		US 117430	B2	19930907
US 5688657	P	19931130	US AA	PRIORITY
		US 159836	B2	19931130
US 5688657	P	19940912	US AE	APPLICATION DATA (PATENT)
		(APPL. DATA (PATENT))		
		US 304524	A	19940912
US 5688657	P	19941128	US AS02	ASSIGNMENT OF ASSIGNOR'S INTEREST
		INTERNATIONAL BIO-IMMUNE SYSTEMS, INC. 600 NORTHERN BOULEVARD, SUITE 111 GREAT N ; TSANG, KWONG Y. : 19940826; ARLEN, MYRON : 19941004		
US 5688657	P	19971118	US A	PATENT
US 5688657	P	20020312	US RF	REISSUE APPLICATION FILED (REISSUE APPL. FILED)
		20000804		

## WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9608514 A1 19960321  
 MONOCLONAL ANTIBODIES AGAINST HUMAN COLON CARCINOMA-ASSOCIATED ANTIGENS AND USES THEREFOR (English)  
 Patent Assignee: TSANG KWONG Y (US); ARLEN MYRON (US)  
 Author (Inventor): TSANG KWONG Y (US); ARLEN MYRON (US)  
 Priority (No,Kind,Date): US 304524 A 19940912  
 Applic (No,Kind,Date): WO 95US11554 A 19950912  
 Designated States: (National) AM; AT; AU; BB; BG; BR; BY; CA; CH; CN;

CZ; DE; DK; EE; ES; FI; GB; GE; HU; IS; JP; KE; KG; KP; KR; KZ; LK;  
 LR; LT; LU; LV; MD; MG; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE;  
 SG; SI; SK; TJ; TM; TT; UA; UG; UZ; VN (Regional) KE; MW; SD; SZ;  
 UG; AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE;  
 BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG  
 Filing Details: WO 130000 With international search report; Before  
 expiration of time limit for amending the claims and to be  
 republished in the event of the receipt of the amendments  
 IPC: \* C07K-016/00; C07K-016/30; C07K-016/18; C07K-014/00;  
 A61K-039/395; A61K-041/00; A61K-049/00; A61K-051/00; G01N-033/574;  
 C12N-015/02; C12P-021/08  
 CA Abstract No: \* 125(01)008489M; 127(25)343589N; 125(01)008489M  
 Derwent WPI Acc No: \* C 96-179905; C 96-179905  
 Language of Document: English

## WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Legal Status (No,Type,Date,Code,Text):

WO 9608514	P	19940912	WO AA	PRIORITY (PATENT)
			US 304524 A	19940912
WO 9608514	P	19950912	WO AE	APPLICATION DATA (APPL. DATA)
			WO 95US11554 A	19950912
WO 9608514	P	19960321	WO AK	DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED STATES CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
			AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG UZ VN	
WO 9608514	P	19960321	WO AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
			KE MW SD SZ UG AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG	
WO 9608514	P	19960321	WO A1	PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL SEARCH REPORT (PUB. OF THE INTERNATIONAL APPL. WITH THE INTERNATIONAL SEARCH REPORT)
WO 9608514	P	19960620	WO DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE
WO 9608514	P	19960626	WO 121	EP: PCT APP. ART. 158 (1) (EP: PCT ANM. ART. 158 (1))
WO 9608514	P	19970311	WO ENP	ENTRY INTO THE NATIONAL PHASE IN: CA 2199740 AA
WO 9608514	P	19970710	DE 8642/REG	WITHDRAWAL (ZURUECKNAHME)

## SOUTH AFRICA (ZA)

Patent (No,Kind,Date): ZA 9507634 A 19960527

MONOCLONAL ANTIBODIES AGAINST HUMAN COLON CARCINOMA-ASSOCIATED ANTIGENS AND USES THEREFOR (English)

Patent Assignee: TSANG KWONG Y; ARLEN MYRON

Author (Inventor): TSANG KWONG Y; ARLEN MYRON

Priority (No,Kind,Date): US 304524 A 19940912

Applic (No,Kind,Date): ZA 957634 A 19950912

IPC: \* A61K; C07K; C12P

CA Abstract No: \* 125(01)008489M

Derwent WPI Acc No: \* C 96-179905

Language of Document: English

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Helms      Pat. No. 5,688,657

1 / 1 PLUSPAT - ©QUESTEL-ORBIT

PN

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US5688657 A 19971118 [US5688657]

TI

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(A) Monoclonal antibodies against human colon carcinoma-associated antigens  
and uses therefor

PA

-

(A) INT BIO IMMUNE SYSTEMS INC (US)

IN

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(A) TSANG KWONG Y (US); ARLEN MYRON (US)

AP

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US30452494 19940912 [1994US-0304524]

PR

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US11743093 19930907 [1993US-0117430]

US15983693 19931130 [1993US-0159836]

US17633788 19880331 [1988US-0176337]

US30452494 19940912 [1994US-0304524]

US67081691 19910318 [1991US-0670816]

IC

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(A) C07K-016/18 C07K-016/30 G01N-033/53 G01N-033/574

EC

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G01N-033/574C6

PCL

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ORIGINAL (O) : 435007230; CROSS-REFERENCE (X) : 435007100

435007200 435040510 435040520

435325000 435328000 435329000 435330000 435332000 435344000 530387100

530387300 530387500

530387700 530388100 530388800 530391100 530391300 530391700

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Basic

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US4579827; US4699880; US4810781

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STG

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(A) United States patent

AB

-

Monoclonal antibodies, in particular 33.28 and 31.1, and chimeric antibodies, in particular mouse/human chimeric Chi #1

specific for glycoprotein antigens of colon carcinoma-associated antigens which are immunogenic in humans, are

disclosed. Such antibodies, and fragments and derivatives thereof, are useful in immunodiagnosis and immunotherapy of

human colon, breast, and ovarian cancer, and for purification of antigens which can serve as immunotherapeutic agents.

Methods of detecting the colon carcinoma-associated antigen in a sample, and methods for treating subjects having

colon, breast, and ovarian carcinomas are disclosed.

Query/Command : us5688657/pn;prt max 1;..st

Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility, Design and Plant Patents](#) ⓘ

Terms: **patno=5688657** ([Edit Search](#))

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08304524 (08) 5688657 November 18, 1997

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT  
**5688657**

[Access PDF of Official Patent.](#) (Note: Cost incurred in a later step)

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[Link to Claims Section](#)  
◆ [GET 1st DRAWING SHEET OF 4](#)

November 18, 1997

Monoclonal antibodies against human colon carcinoma-associated antigens and uses therefor  
**REISSUE:** August 4, 2000 - Reissue Application filed Aug. 4, 2000 (O.G. Mar. 12, 2002) Ex. Gp.: 1641; Re. S.N. 09/633,034 March 12, 2002

**INVENTOR:** Tsang, Kwong Y., Bethesda, MD; Arlen, Myron, Great Neck, NY

**APPL-NO:** 08304524 (08)

**FILED-DATE:** September 12, 1994

**GRANTED-DATE:** November 18, 1997

**ASSIGNEE-AT-ISSUE:** International Bio-Immune Systems, Inc., Great Neck, NY

**ASSIGNEE-AFTER-ISSUE:** November 28, 1994 - ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS)., INTERNATIONAL BIO-IMMUNE SYSTEMS, INC. 600 NORTHERN BOULEVARD, SUITE 111 GREAT NECK, NY 11021,, Reel and Frame Number: 007244/0140

**CORE TERMS:** antibody, cell, mab, antigen, colon, chain, tumor, gene, chimeric, carcinoma ...

**ENGLISH-ABST:**

Monoclonal antibodies, in particular 33.28 and 31.1, and chimeric antibodies, in particular mouse/human chimeric Chi #1 specific for glycoprotein antigens of colon carcinoma-associated antigens which are immunogenic in humans, are disclosed. Such antibodies, and fragments and derivatives thereof, are useful in immunodiagnosis and immunotherapy of human colon, breast, and ovarian cancer, and for purification of antigens which can serve as immunotherapeutic agents. Methods of detecting the colon carcinoma-associated antigen in a sample, and methods for treating subjects having colon, breast, and ovarian carcinomas are disclosed.

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